FARFISA

ELECTRONIC ORGAN

VIP 600

SCHEMATIC DIAGRAMS

IMPORTANT: IN ANY CORRESPONDANCE CONCERNING THIS INSTRUMENT ALWAYS INCLUDE MODEL AND SERIAL NUMBERS!

PARTS ORDERING - When ordering parts be sure to include the following information:

1. Model and serial Number of instrument.
2. Part Code
3. A description of the Part.
4. Specify how you want the part shipped.

FARFISA COMPANY - WHOSE POLICY IS CONSTANTLY DIRECTED TO IMPROVEMENTS AND NEW DEVELOPMENTS - RESERVES THE RIGHT TO CHANGE SPECIFICATIONS, DESIGNS, PRICES, MODELS AND TO DISCONTINUE MODELS WITHOUT NOTICE AND LIABILITY.

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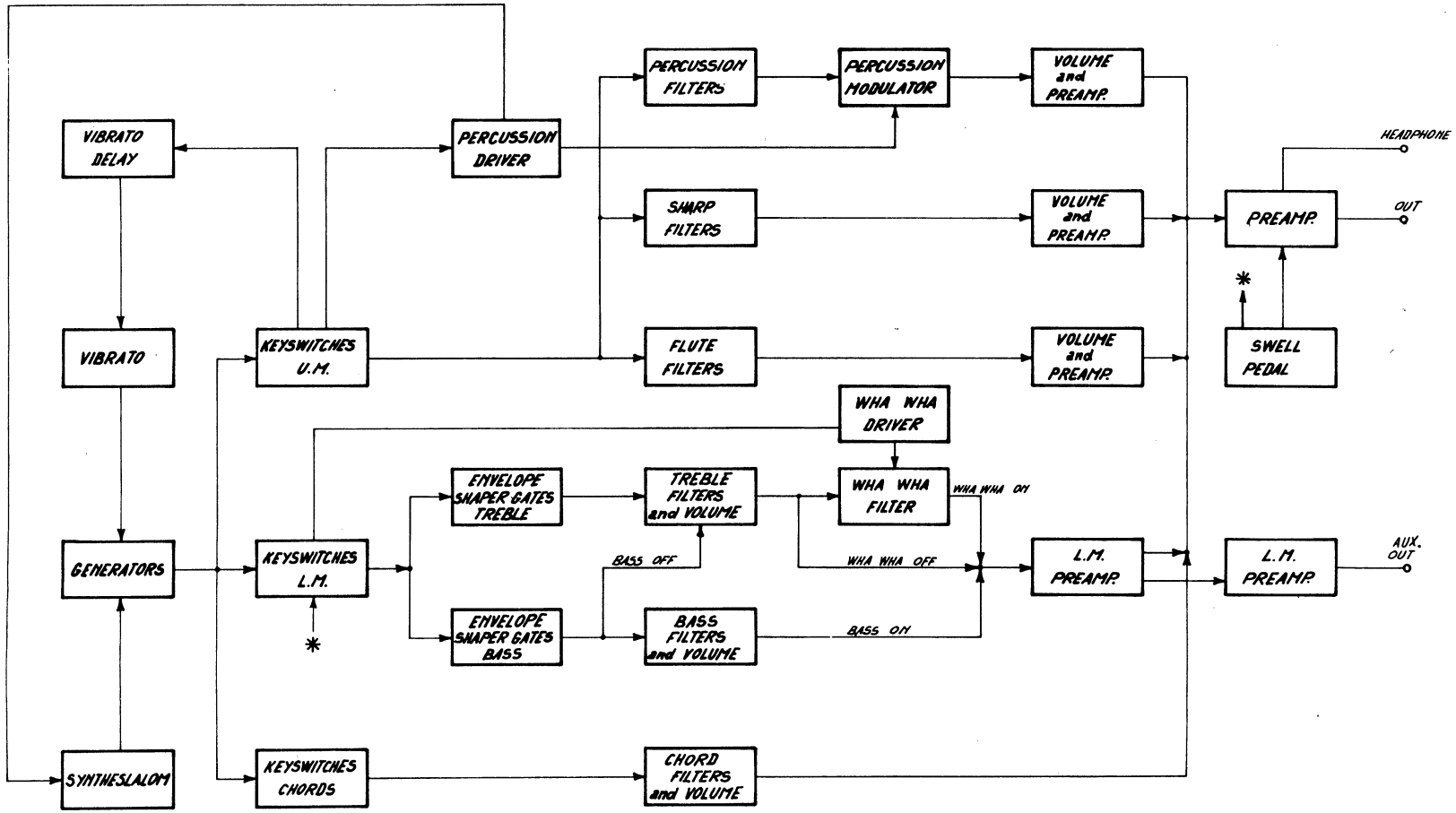
BLOCK DIAGRAM

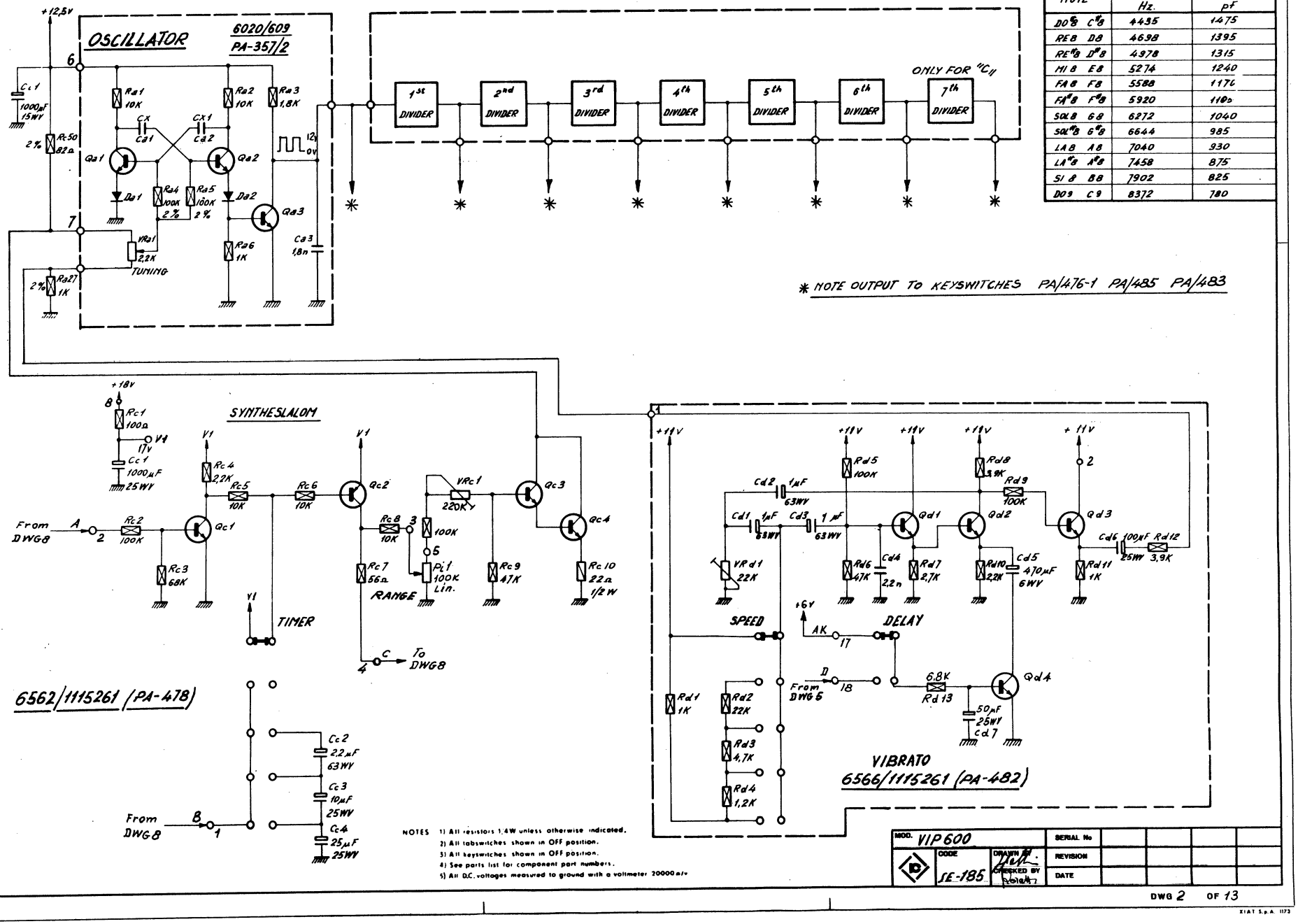


NOTES
1) All resistors 1/4W unless otherwise indicated.
2) All tabswitches shown in OFF position.
3) All keyswitches shown in OFF position.
4) See parts list for component part numbers.
5) All D.C. voltages measured to ground with a voltmeter 20000 ohm/v

MOD. VIP 600		SERIAL No	
CODE SE-185	DRAWN BY	REVISION	
	CHECKED BY	DATE	

DWG 1 OF 13

KIAT S.p.A. 1173



NOTE	FREQUENCY Hz.	Cx − Cx1 pF
DO#8 C#8	4435	1475
RE8 D8	4698	1395
RE#8 D#8	4978	1315
MI8 E8	5274	1240
FA8 F8	5588	1170
FA#8 F#8	5920	1105
SOL8 G8	6272	1040
SOL#8 G#8	6644	985
LA8 A8	7040	930
LA#8 A#8	7458	875
SI 8 B8	7902	825
DO9 C9	8372	780

NOTES
1) All resistors 1,4W unless otherwise indicated.
2) All tabswitches shown in OFF position.
3) All keyswitches shown in OFF position.
4) See parts list for component part numbers.
5) All D.C. voltages measured to ground with a voltmeter 20000 Ω/V

MOD. VIP 600		SERIAL No				
CODE SE-185	DRAWN BY	REVISION				
	CHECKED BY	DATE				

XIAT S.p.A. 1173

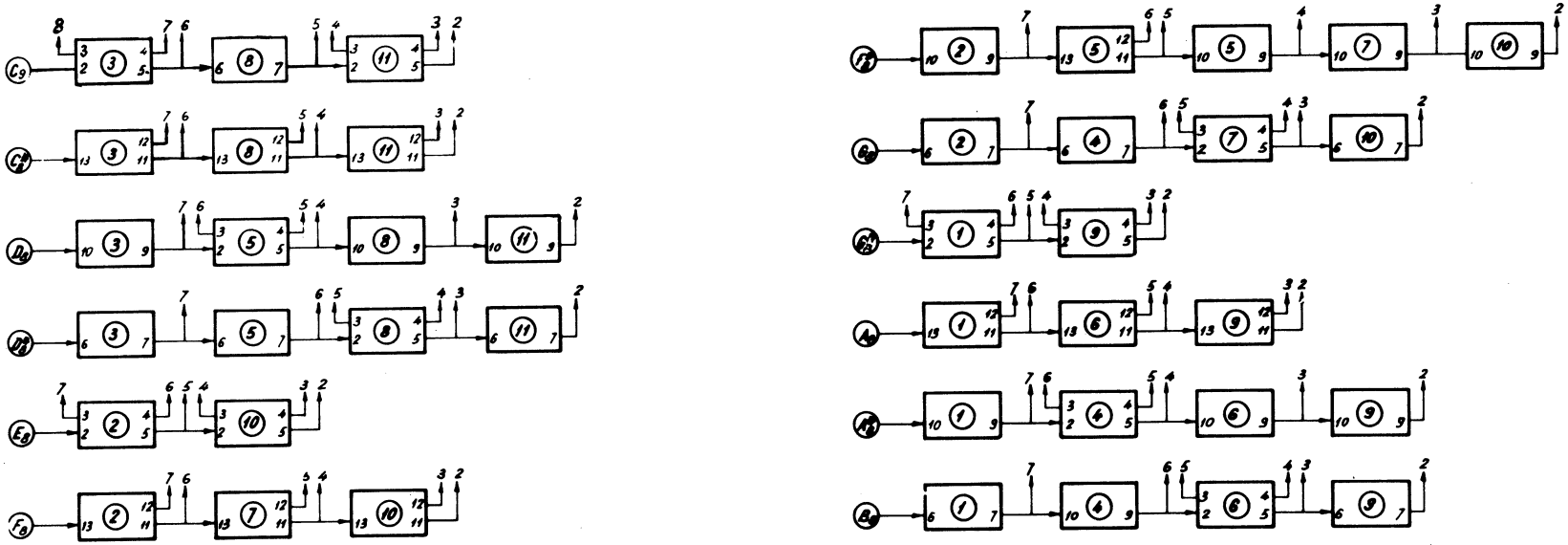
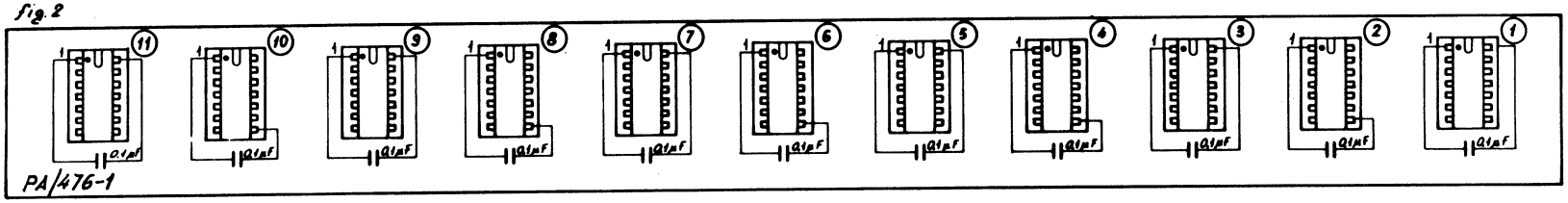


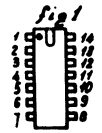
fig. 2

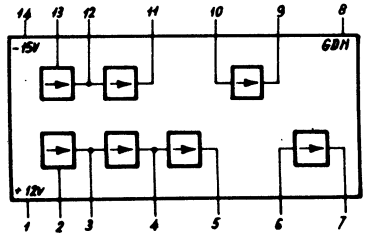


NOTES:

1) THE TONE GENERATOR OF THE KEYBOARD NOTES ARE INDICATED WITH TWO NUMBERS. THE CIRCLED NUMBER THAT APPEARS ALSO ON THE PRINTED CIRCUIT BOARD INDICATES THE INTEGRATED CIRCUIT; THE SECOND NUMBER INDICATES THE INTEGRATED CIRCUIT PIN.
2) ASSEMBLY OF THE I.C.s SHOULD BE MADE AS SHOWN IN FIGURES 1 AND 2.

fig. 1





MOD. VIP600		SERIAL No.				
CODE SE-185	DRAWN BY	REVISION				
	CHECKED BY	DATE				

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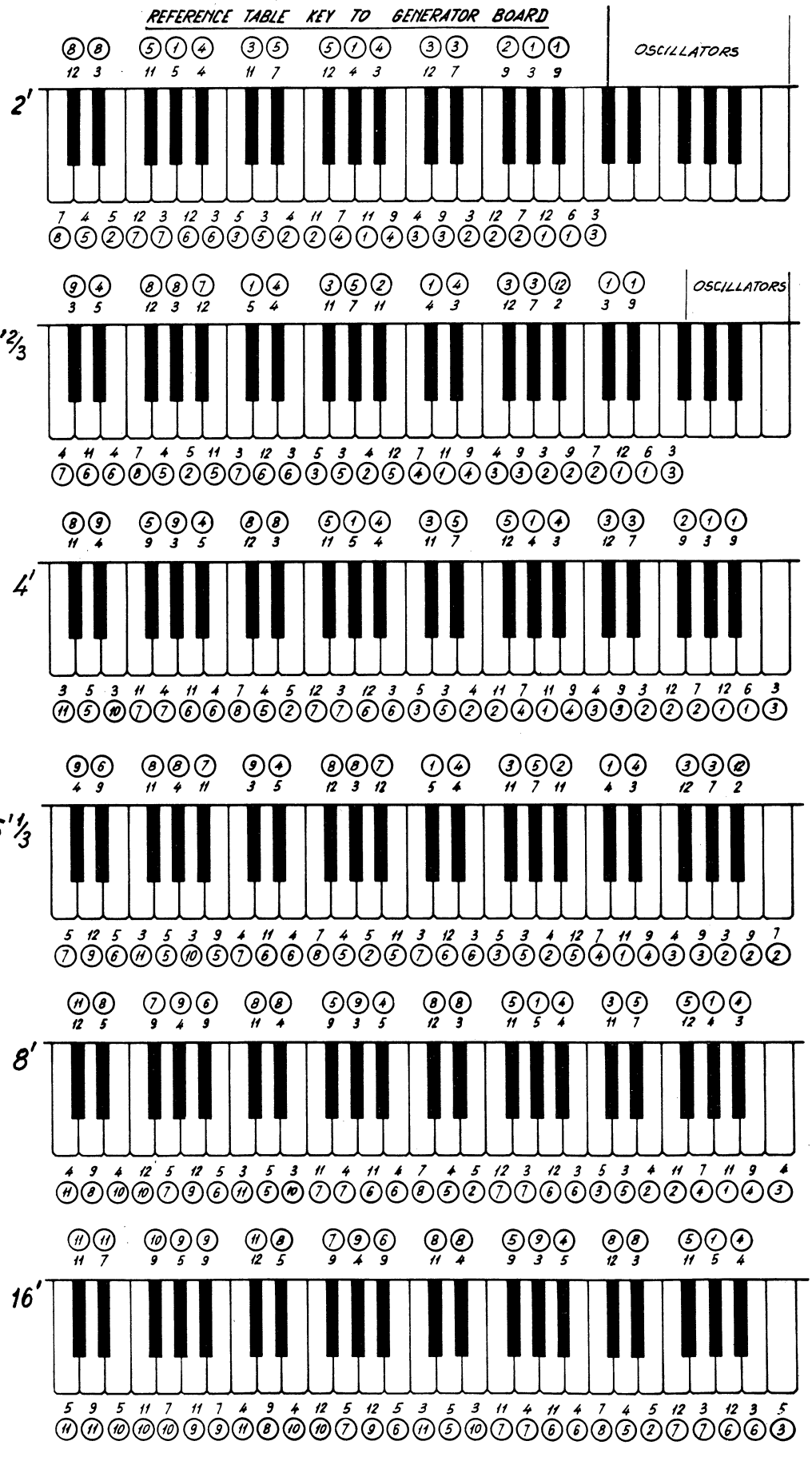
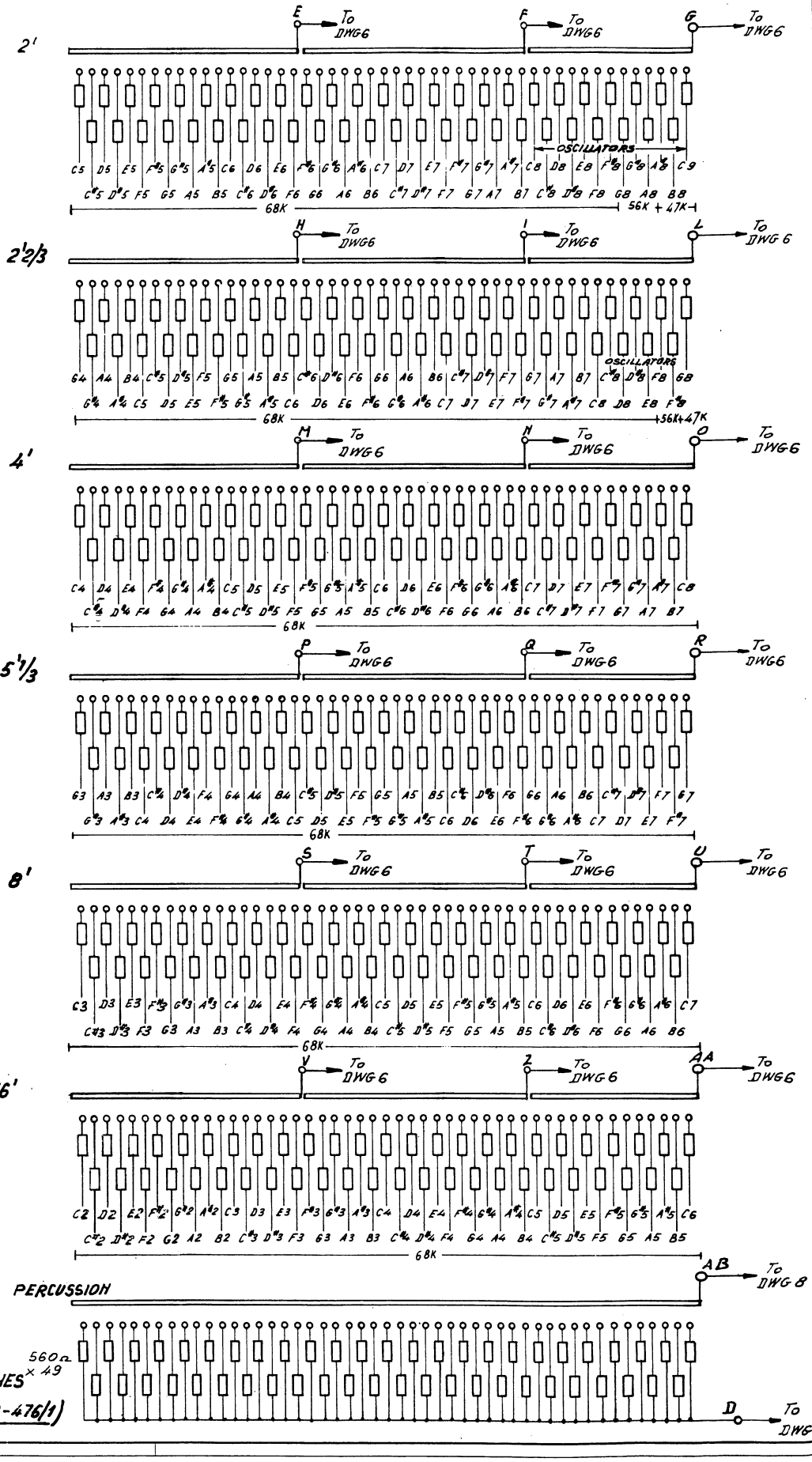
REFERENCE TABLE KEY TO GENERATOR BOARD



MODEL	VIP 600
CODE	SE-185
DRAWN BY	
CHECKED BY	
SERIAL No.	
REVISION	
DATE	

DWG. 4 OF 13

ELKAY S.p.A. 1973



U.M. KEYSWITCHES × 49

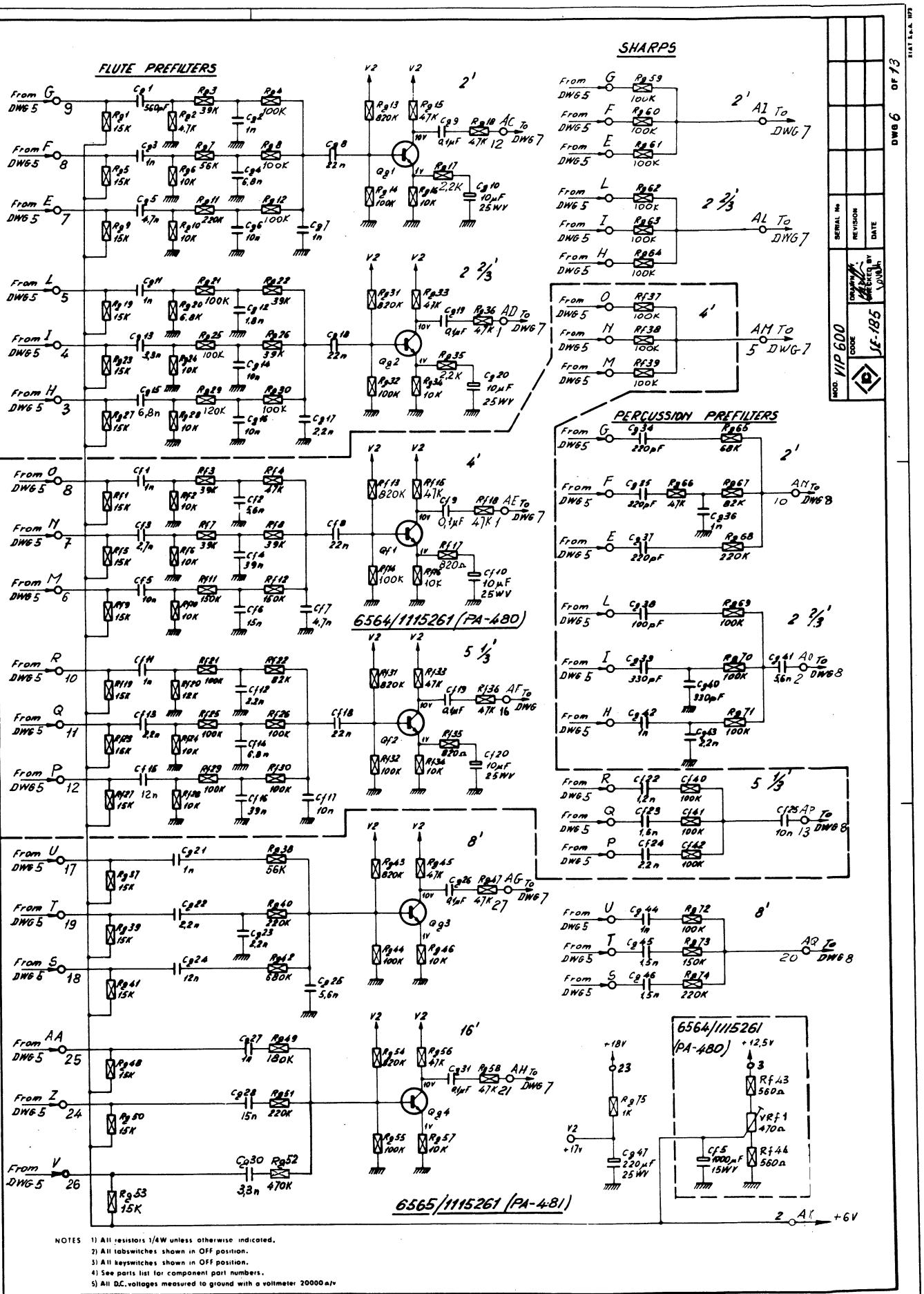
6569/1115261 (PA-476/1)

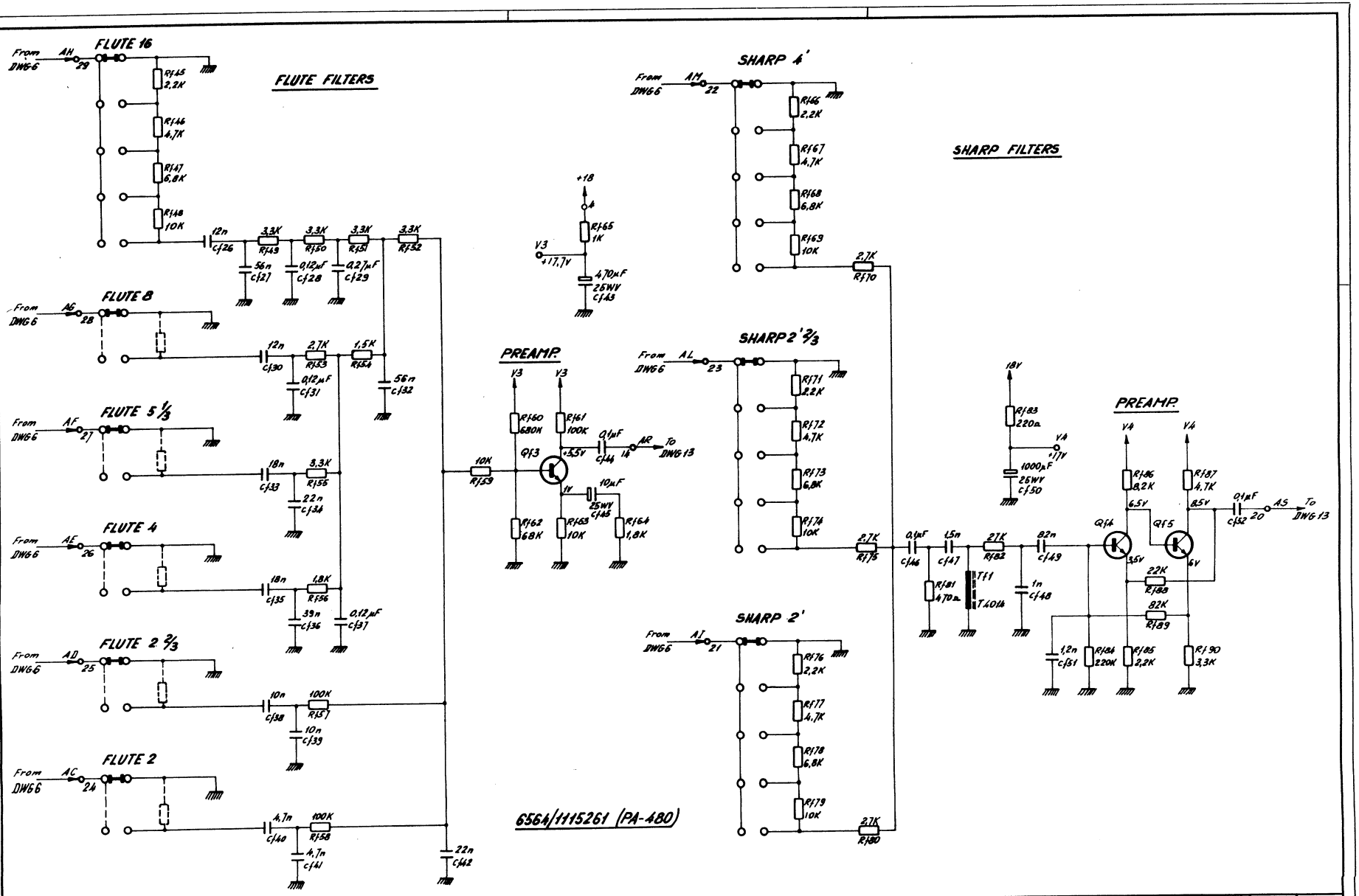
NOTES: 1) All resistors 1 8 W unless otherwise indicated.
2) All tabswitches shown in OFF position.
3) All keyswitches shown in OFF position.
4) See parts list for component part numbers.

MOD. VIP600 | CODE LE-185 | DRAWN | CHECKED BY | SERIAL No. | REVISION | DATE

DWG 5 OF 13

ELAT S.p.A. 1973


FLUTE PREFILTERS
SHARPS
PERCUSSION PREFILTERS
6564/1115261 (PA-480)
6565/1115261 (PA-481)
6564/1115261 (PA-480)
NOTES 1) All resistors 1/4W unless otherwise indicated.
2) All tabswitches shown in OFF position.
3) All keyswitches shown in OFF position.
4) See parts list for component part numbers.
5) All D.C. voltages measured to ground with a voltmeter 20000 Ω/v
MOD. VIP 600
CODE JE-185
DRAWN
CHECKED BY
SERIAL No
REVISION
DATE
DWG 6 OF 13

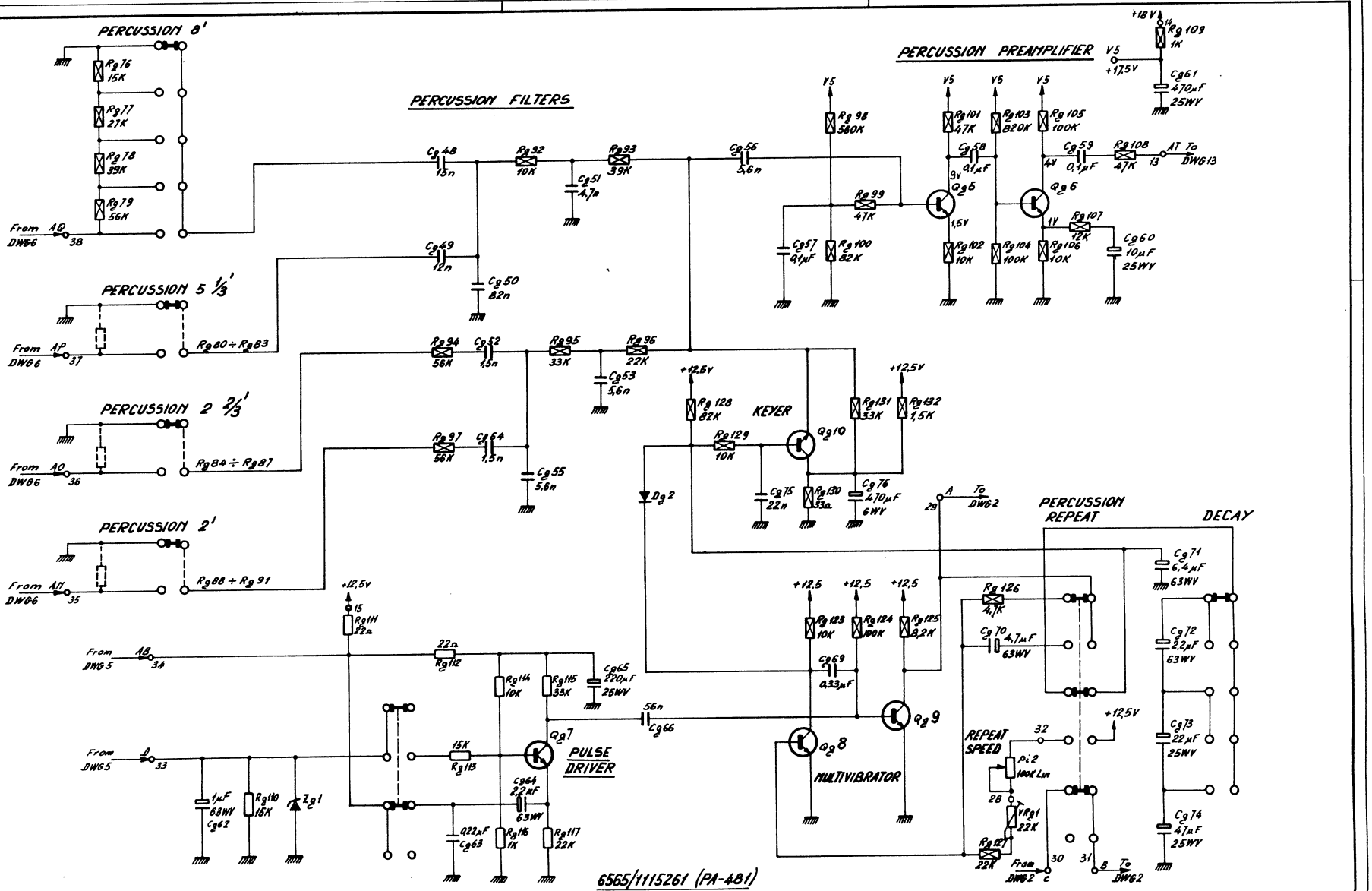


NOTES
1) All resistors 1/4W unless otherwise indicated.
2) All tabswitches shown in OFF position.
3) All keyswitches shown in OFF position.
4 See parts list for component part numbers.
5) All D.C. voltages measured to ground with a voltmeter 20000 Ω/V

MOD. VIP 600		SERIAL No				
CODE 5E-185	DRAWN BY Italian CHECKED BY	REVISION				
		DATE				

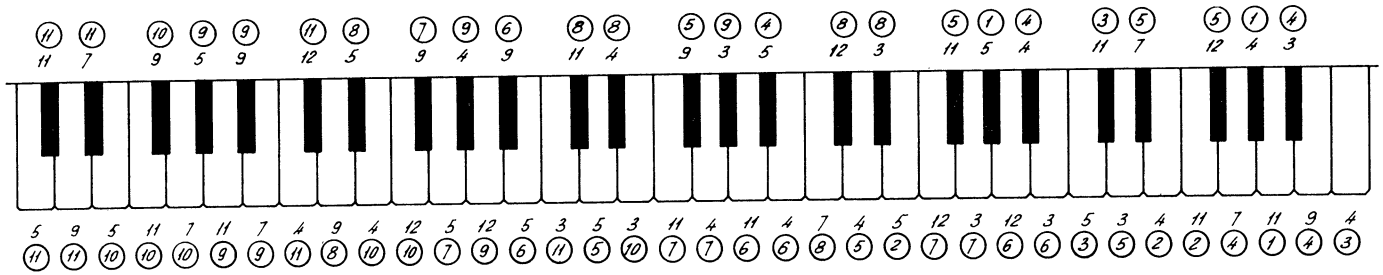
DWG 7 OF 13

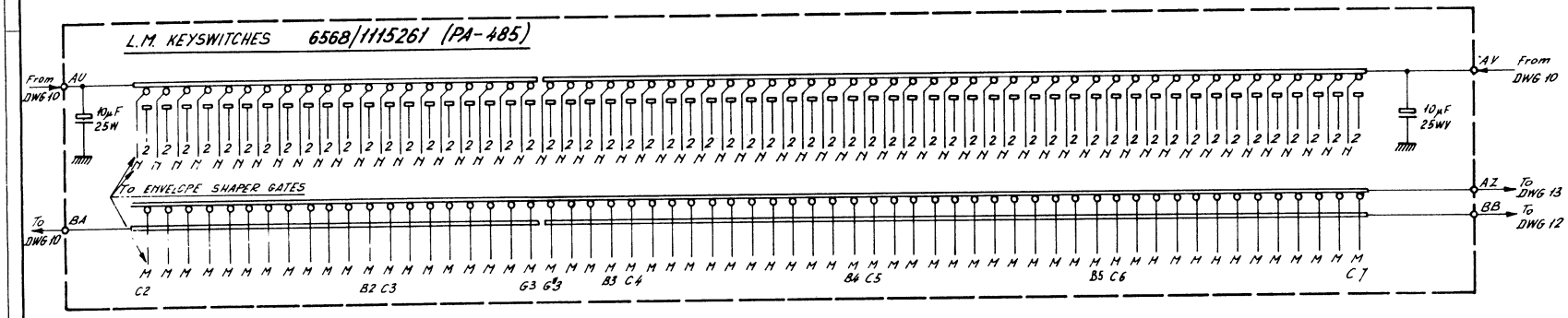
XIAT S.p.A. 1173

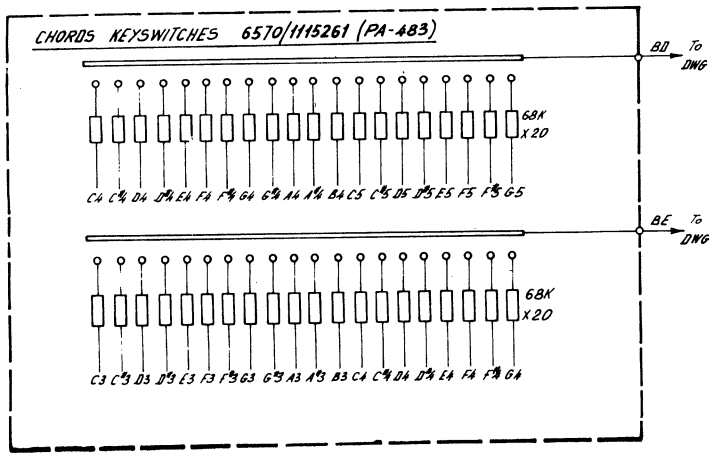


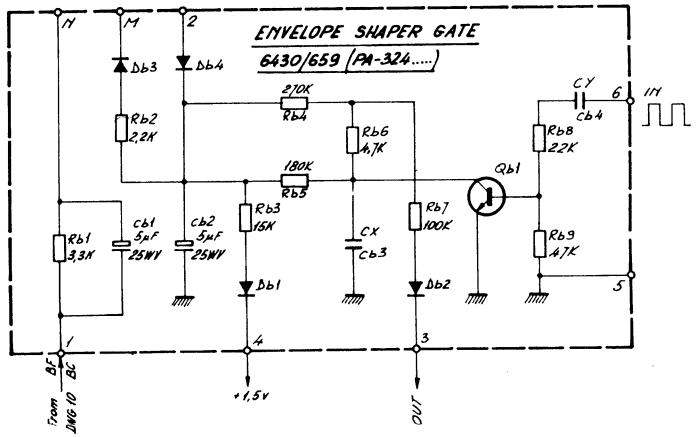
NOTES:
1) All resistors 1/4W unless otherwise indicated.
2) All tabswitches shown in OFF position.
3) All keyswitches shown in OFF position.
4) See parts list for component part numbers.
5) All D.C. voltages measured to ground with a voltmeter 20000 o/v

MOD. VIP 600		SERIAL No.				
ID	CODE SE-185	DRAWN BY Mattsson	REVISION			
		CHECKED BY Olsson	DATE			






CHORDS KEYSWITCHES 6570/1115261 (PA-483)
BD To DWG
68K X20
C4 C#4 D4 D#4 E4 F4 F#4 G4 G#4 A4 A#4 B4 C5 C#5 D5 D#5 E5 F5 F#5 G5
BE To DWG
68K X20
C3 C#3 D3 D#3 E3 F3 F#3 G3 G#3 A3 A#3 B3 C4 C#4 D4 D#4 E4 F4 F#4 G4



NOTE	CODE	CX pF	CY pF
C2 ÷ B2	PA/324-4/6430/659	68.000	1.200
C3 ÷ B3	PA/324-3/6429/659	47.000	1.000
C4 ÷ B4	PA/324-2/6428/659	27.000	1.000
C5 ÷ B5	PA/324-1/6427/659	15.000	1.000
C6 ÷ C7	PA/324/6426/659	8.200	1.000

NOTES
1) All resistors 1/4W unless otherwise indicated.
2) All tabswitches shown in OFF position.
3) All keyswitches shown in OFF position.
4) See parts list for component part numbers.
5) All D.C. voltages measured to ground with a voltmeter: 20000 n/v

MOD. VIP 600				SERIAL No	
CODE	DRAWN BY			REVISION	
SE-185	CHECKED BY			DATE	

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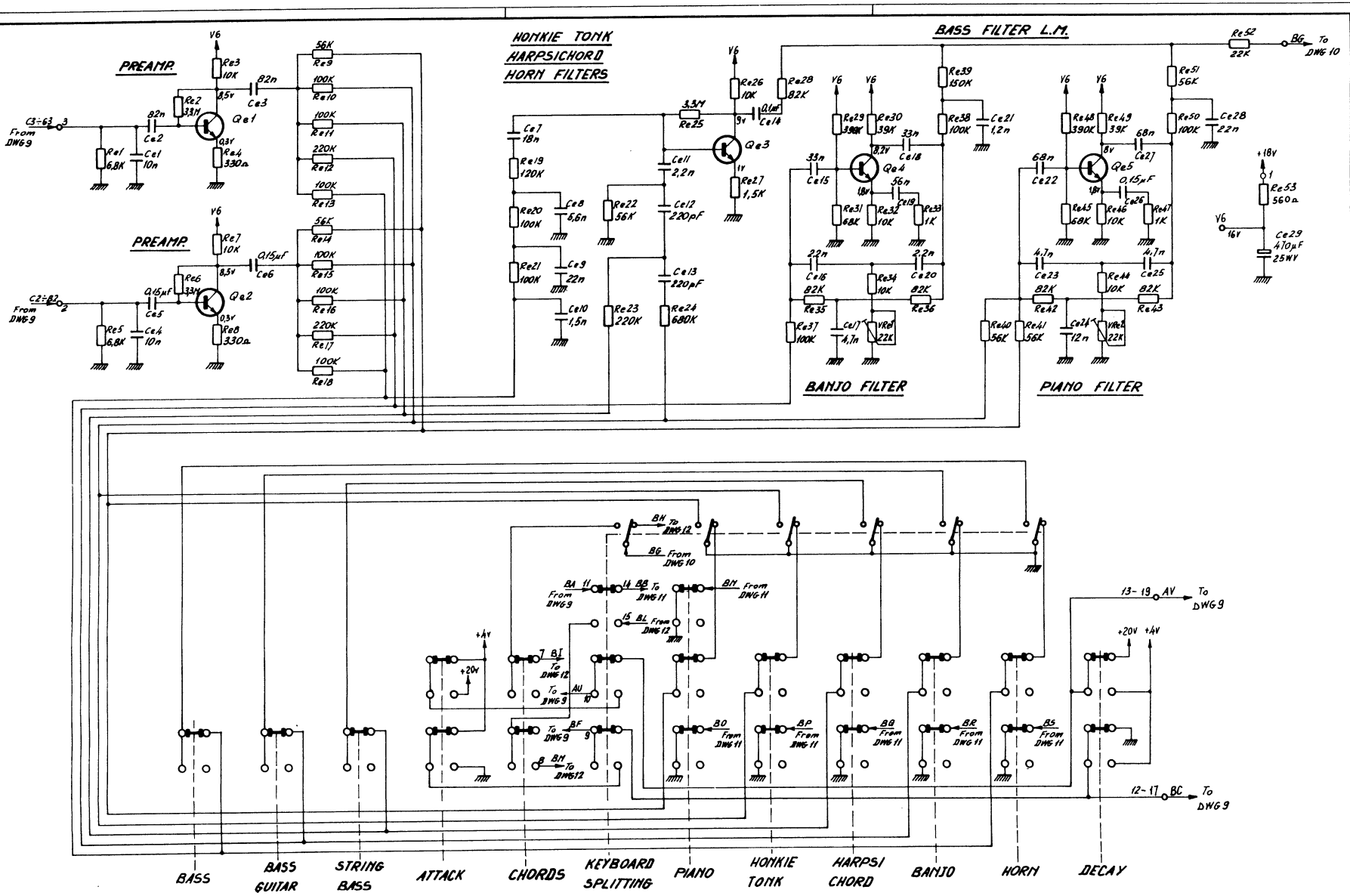

6563/1115261 (PA-479)

NOTES
1. All resistors 1 4W unless otherwise indicated.
2. All tabswitches shown in OFF position.
3. All keyswitches shown in OFF position.
4. See parts list for component part numbers.
5. All D.C. voltages measured to ground with a voltmeter 20000 Ω/v

MOD. VIP 600		SERIAL No				
CODE SE-185	DRAWN BY	REVISION				
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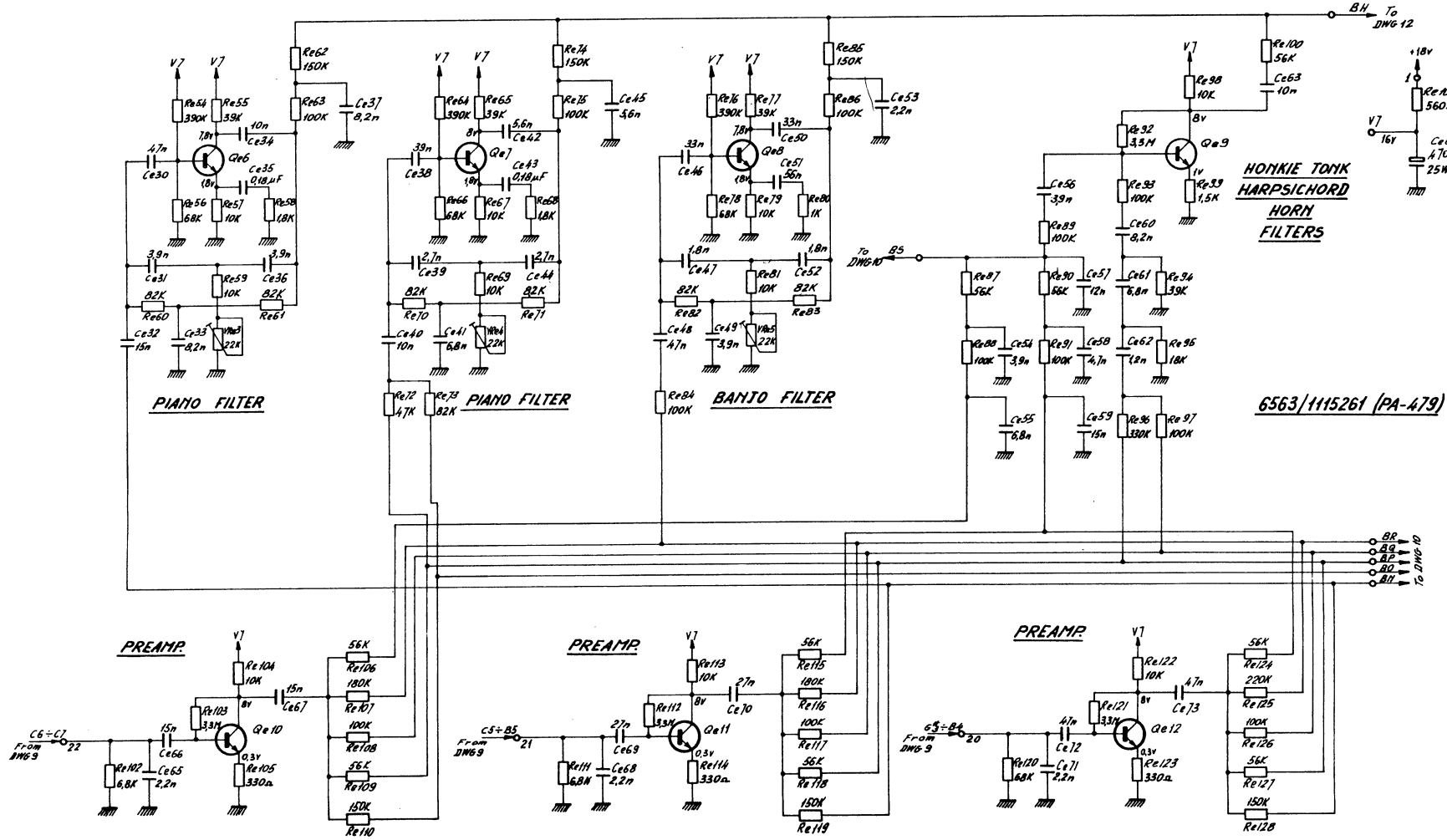
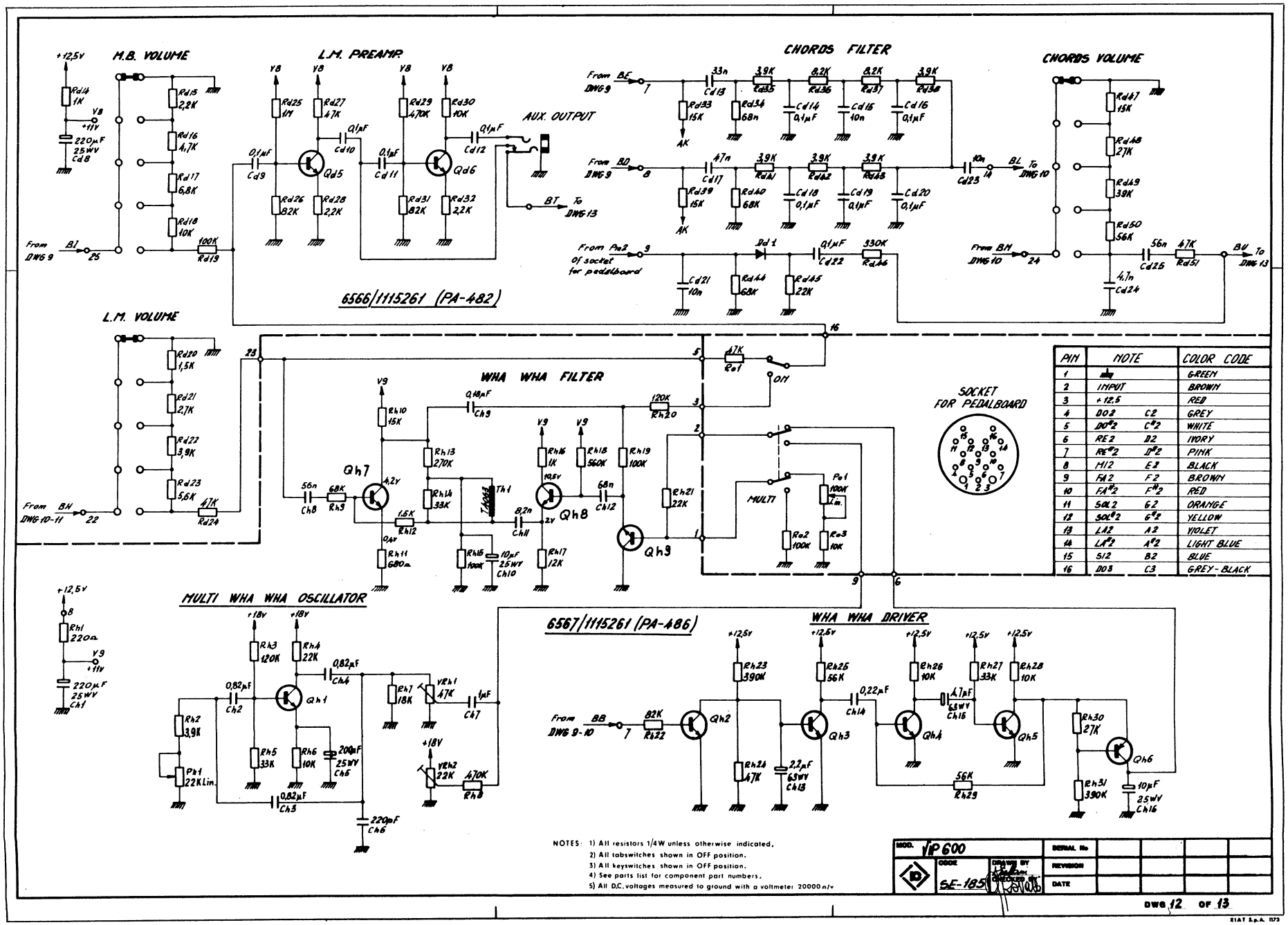
TREBLE FILTERS L.M.

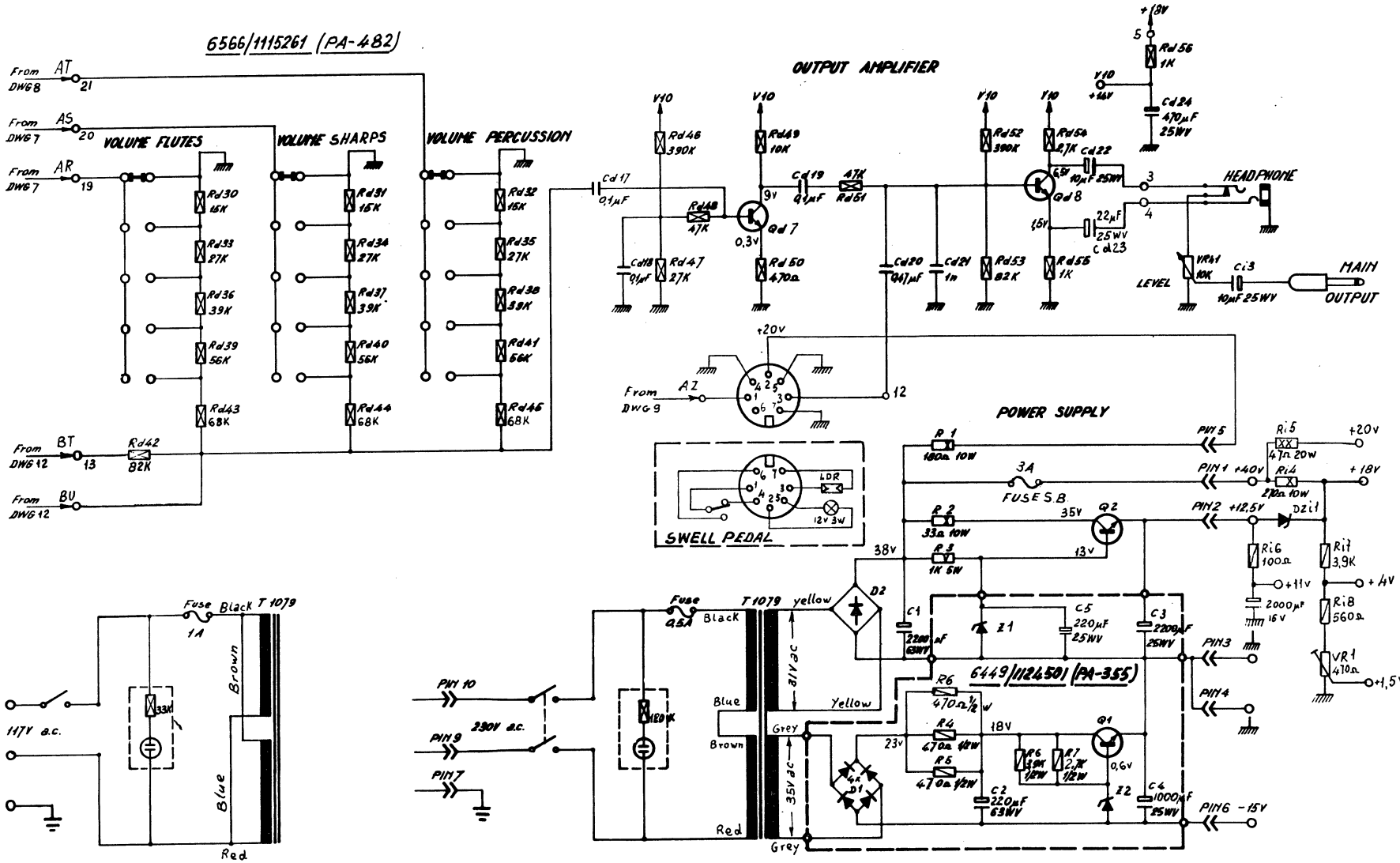


XIAT S.p.A. 1173



PIN	NOTE	COLOR CODE
1		GREEN
2	INPUT	BROWN
3	+12.5	RED
4	DO2 C2	GREY
5	DO#2 C#2	WHITE
6	RE2 D2	IVORY
7	RE#2 D#2	PINK
8	MI2 E2	BLACK
9	FA2 F2	BROWN
10	FA#2 F#2	RED
11	SOL2 G2	ORANGE
12	SOL#2 G#2	YELLOW
13	LA2 A2	VIOLET
14	LA#2 A#2	LIGHT BLUE
15	SI2 B2	BLUE
16	DO3 C3	GREY-BLACK

EIAT S.p.A. 1173



NOTES
1) All resistors 1 4W unless otherwise indicated.
2) All tabswitches shown in OFF position.
3) All keyswitches shown in OFF position.
4. See parts list for component part numbers.
5) All D.C. voltages measured to ground with a voltmeter 20000 n/v

MOD. VIP 600			SERIAL No				
CODE SE-185	DRAWN BY AM	CHECKED BY COMELATI	REVISION				
			DATE				

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XIAT S.p.A. 1972

Schem.Ref.	Circuit	Type	Part Code
CHASSIS	POWER SUPPLY CHASSIS (DWG 13/SE 185)		8000/1124501
Q 2	Series Stabilizer.....	WESTINGHOUSE 156-043... SOLITRON H 9340.....	W/1800
D 2	Rectifier Bridge.....	ITT STANDARD B 40-C 2200 SIEMENS B 40-C 2200 AEG - B 40-C 2200	Y/14 - Y/15
PA 355	VOLTAGE REGULATOR BOARD (DWG 13/SE 185)		6449/1124501
Q 1	Series Stabilizer.....	SGS BC 286.....	W/1601
D 1	Rectifier Diode (Bridge).....	MISTRAL SFD 182..... TEXAS 1N 914.....	B/77 B/108
Z 1	Voltage Reference-Diode Zener (13V-1W)	IRCI 1 Z 13..... MOTOROLA 1N 4743.....	B/105
Z 2	Voltage Reference-Diode Zener (15V-400mV)	ITT STANDARD ZF 15..... MOTOROLA 1N 5245-B.....	B/106
PA 357-2	TONE GENERATOR (DWG 2/SE 185)		6020/609
Q a1	Master Oscillator.....	BC 217 B or C.....	W/1401
Q a2	Master Oscillator.....	G.E. 2N 5172.....	W/1425
Q a3	Buffer Amplifier.....	BC 109 B or C..... BC 209 B or C.....	W/1409 - W/1412 W/1407 - W/1410
D a1-D a2	Base Breakdown Protection....	SGS IX 9809..... TEXAS D 525 A or B.....	B/34 B/110 - B/111
PA 478	SYNTHESLALOM (DWG 2/SE 185)		6562/1115261
Q c1	Buffer.....	BC 209-B.....	W/1407
Q c3	Driver.....	BC 239-B.....	
Q c2	Control.....	IW 9640.....	W/1500 - W/89
Q c4	Driver.....	BC 286.....	W/1601

Schem.Ref.	Circuit	Type	Part Code
PA 482	VIBRATO (DWG 2-12-13/SE 185)		6566/1115261
Q d1	Vibrato Oscillator.....	BC 209-B.....	W/1407
Q d2	Vibrato Oscillator.....	BC 239-B.....	
Q d3	Vibrato Driver.....		
Q d4	Delay.....		
Q d5-Q d6	L.M. Preamplifiers.....		
Q d7-Q d8	Output Amplifiers.....	BC 209 red dot.....	W/1413
		BC 239 red dot.....	
D d1	Diode.....	TEXAS D 525 A or B.....	B/34-B/110-B/11
		SGS 1X9809.....	
PA 476-1	U.M. KEYSWITCHES (DWG 3/SE 185)		6569/1115261
IC1÷IC11	Integrated Dividers.....	G.I.E. - MISTRAL.....	W/1100 - W/1101
PA 481	PERCUSSION FILTERS (DWG 6-8/SE 185)		6565/1115261
Q g1÷Q g4	Flute Preamplifiers.....	BC 209-B.....	W/1407
		BC 239-B.....	
Q g5-Q g6	Percussion Preamplifiers....	BC 209-B red dot.....	W/1413
		BC 239-B red dot.....	
Q g7	Pulse Driver.....	BC 209-B.....	W/1407
Q g8-Q g9	Multivibrators.....	BC 239-B.....	
Q g10	Keyer.....		
Z g1	Zener Diode (5,6 V-400 mA)...	IRCI 1N 752 A.....	B/69
D g2	Diode.....	IRCI 10 D1.....	B/50-B/51-B/92
		IRCI 10 D2.....	
PA 480	FLUTE & SHARP-FILTERS (DWG 6-7/SE 185)		6564/1115261
Q f1-Q f2	Flute Preamplifiers.....	BC 209-B.....	W/1407
		BC 239-B.....	
Q f3	Flute Preamplifier	BC 209-B red dot.....	W/1413
Q f4-Q f5	Sharp Preamplifiers.....	BC 239-B red dot.....	

Schem.Ref.	Circuit	Type	Part Code
PA 324			6426/659
PA 324-1			6427/659
PA 324-2	ENVELOPE SHAPPER GATE (DWG 9/SE 185)		6428/659
PA 324-3			6429/659
PA 324-4			6430/659
Q b1	Chopper Transistor.....	BC 109 B or C..... BC 209 B or C.....	W/1407-W/1409 W/1410-W/1412 W/1425
D b1-D b3 D b2-D b4	Decay Controls..... Diodes.....	SGS 1X 9809..... BA 222 PHILIPS..... D 525 TEXAS.....	B/34 - B/111
PA 479	L.M. FILTERS (DWG 10-11/SE 185)		6563/1115261
Q e1-Q e2 Q e3-Q e9 Q e4-Q e8 Q e5÷Q e7 Q e10÷Q e12	Preamplifiers..... Honkie Tonk Harpsichord Horn Filters..... Banjo Filters..... Piano Filters..... Preamplifiers.....	BC 209-B red dot..... BC 239-B red dot.....	W/1413
PA 486	WHA - WHA FILTER (DWG 12/SE 185)		6567/1115261
Q h1 Q h2-Q h3 Q h4-Q h5	Oscillators..... Driver..... Multivibrators.....	BC 209-B..... BC 239-B.....	W/1407
Q h6	Pulse Driver.....	I W 9640.....	W/1500-W/89
Q h7-Q h8 Q h9	Wha Wha Filters..... Keyer.....	BC 209-B..... BC 239-B.....	W/1407